

tive weighting factor $w_{nc,4}$, $w_{nc,5}$. For instance, these weighting factors may be chosen such that $w_{nc,4} = -w_{nc,5}$ hold. For instance, $w_{nc,4} = 1$ and $w_{nc,5} = -1$ may hold. This would provide enhanced compatibility in case of surround downmixing.

[0144] The sixth channel representative may be the above-mentioned further channel representative.

[0145] Accordingly, it may be possible to generate a spatial signal representation comprising a plurality of channel representatives based on the noise reduced component 310 and based on the noise component 320 in accordance with combination rules, wherein said combination rules may be considered to represent a signal processing matrix.

[0146] Thus, for instance, it is possible to generate this spatial signal representation based on a single mono signal, wherein the noise reduced component 310 and the noise component 320 of the mono signal are used for generating this spatial signal.

[0147] FIG. 5 depicts a schematic illustration of a system 500 according to an embodiment of the invention.

[0148] This system comprises a noise processing entity 550 and a signal processing entity 530, wherein the noise processing entity 550 is configured to generate a noise reduced component 510 of a signal 501 and a noise component 520 of the signal 501, wherein the signal 501 may represent the original signal mentioned above. Thus, any explanations given above with respect to the noise reduced component 310 and the noise component 320 may also hold for the noise reduced component 510 and the noise component 520.

[0149] Furthermore, the system comprises the signal processing entity 530 which is configured to generate a signal representation comprising at least two channel representatives 541, 542 based on the noise reduced component 510 and the noise component 520, wherein this signal processing entity 530 may be based or correspond on the signal processing entity 330 mentioned above. Thus, any explanations given above with respect to generating the at least two channel representatives 341, 345 also hold for generating the at least two channel representatives 541, 542, wherein input 505 may correspond to input 305 and output 540 may correspond to output 340.

[0150] For instance, both the noise processing entity 550 as well as the signal processing entity 530 may be implemented in a same entity.

[0151] As used in this application, the term ‘circuitry’ refers to all of the following:

[0152] (a) hardware-only circuit implementations (such as implementations in only analog and/or digital circuitry) and

[0153] (b) combinations of circuits and software (and/or firmware), such as (as applicable):

[0154] (i) to a combination of processor(s) or

[0155] (ii) to portions of processor(s)/software (including digital signal processor(s)), software, and memory(ies) that work together to cause an apparatus, such as a mobile phone or a positioning device, to perform various functions) and

[0156] (c) to circuits, such as a microprocessor(s) or a portion of a microprocessor(s), that require software or firmware for operation, even if the software or firmware is not physically present.

[0157] This definition of ‘circuitry’ applies to all uses of this term in this application, including in any claims. As a further example, as used in this application, the term “circuitry” would also cover an implementation of merely a processor (or multiple processors) or portion of a processor and its (or their) accompanying software and/or firmware. The

term “circuitry” would also cover, for example and if applicable to the particular claim element, a baseband integrated circuit or applications processor integrated circuit for a mobile phone or a mobile terminal.

[0158] With respect to the aspects of the invention and their embodiments described in this application, it is understood that a disclosure of any action or step shall be understood as a disclosure of a corresponding (functional) configuration of a corresponding apparatus (for instance a configuration of the computer program code and/or the processor and/or some other means of the corresponding apparatus), of a corresponding computer program code defined to cause such an action or step when executed and/or of a corresponding (functional) configuration of a system (or parts thereof).

[0159] The aspects of the invention and their embodiments presented in this application and also their single features shall also be understood to be disclosed in all possible combinations with each other. It should also be understood that the sequence of method steps in the flowcharts presented above is not mandatory, also alternative sequences may be possible.

[0160] The invention has been described above by non-limiting examples. In particular, it should be noted that there are alternative ways and variations which are obvious to a skilled person in the art and can be implemented without deviating from the scope and spirit of the appended claims.

1-37. (canceled)

38. A method performed by an apparatus, said method comprising:

generating a signal representation at least based on a noise reduced component from a signal and on a noise component from the signal, said signal representation comprising at least two channel representations.

39. The method according to claim 38, wherein the signal represents a mono signal.

40. The method according to claim 38, wherein said signal representation is a spatial signal representation.

41. The method according to claim 38, wherein at least one of the at least two channel representations is a representation of the noise reduced component.

42. The method according to claim 38, wherein at least one of the at least two channel representations is a representation of the noise component.

43. The method according to claim 38, wherein at least one of the at least two channel representations is based on a combination of the noise reduced component, the noise component and the signal in accordance with a combination rule.

44. The method according to claim 38, wherein at least one of the at least two channel representations is generated based on a combination of the noise reduced component and the noise component in accordance with a combination rule.

45. The method according to claim 44, wherein the signal representation comprises first channel representation based on a combination of the noise reduced component and the noise component in accordance with a first combination rule and a second channel representation based on a combination of the noise reduced component and the noise component in accordance with a second combination rule.

46. The method according to claim 45, wherein the signal representation comprises a third channel representation being a first representation of the noise component and a fourth channel representation being a second representation of the noise component.